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| 09/220,016 | 12/23/1998 | ANDREW JOHN HOMAN | 77682-7 | 4058 |

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EXAMINER

APPIAH, CHARLES NANA

ART UNIT PAPER NUMBER

2682

DATE MAILED: 02/25/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/220,016

Applicant(s)
Homan et al.

Examiner
Charles Applah

Art Unit
2682



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Nov 23, 2001
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 27-34 and 37-39 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 27-34 and 37-39 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirements.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☒ The proposed drawing correction filed on Nov 23, 2001 is: a) ☒ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☐ All b) ☐ Some* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892) 18) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) ☐ Notice of Informal Patent Application (PTO-152)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 20) ☐ Other:

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 27-34 and 37-39 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
3. Claims 27-34 and 37-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Shirai (6,104,924) in view of Gauvin et al. (5,991,760)**.

With respect to claims 27 and 32 Shirai discloses a wireless terminal method and a wireless terminal comprising:

providing a memory on the wireless terminal which in an on-line mode is adapted to be treated as a local virtual memory by an application program running on a server to read and write data in the virtual memory related to the remote application program (“... fixed station supplies to the mobile station the appropriate scripts which the mobile station is capable of utilizing, the mobile station stores the supplied scripts in its memory”, col. 5, lines 5-9), and

Shirai further teaches operating the mobile station in accordance with the stored at least one script and receiving a user input to aid in configuring the operating features of the mobile station

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to select and implement at least one specific capability indicated in the terminal capabilities response without further contact with the fixed station” (col. 6, lines 46-51). Shirai thus read on the invention as claimed except the limitation of the local application having read and write access to the data stored in the virtual memory.

Gauvin discloses method for modifying copies of remotely stored documents using a web browser (see title), in which a local copy of a remote network document that has been downloaded from the network on to a client computer can be accessed and modified when the client is disconnected from the network (see abstract, col. 2, lines 11-29 and col. 5, lines 6-40). According to Gauvin this enables a client to locally update a database, normally located on a remote server, when the client is not connected to the network (see col. 2, lines 5-9)

It would therefore have been obvious to one of ordinary skill in the art have been obvious to one of ordinary skill in the art, at the time of the invention to incorporate the above teaching of Gauvin by providing read and write access to memory locations to which data has been downloaded in the system of Shirai for the benefit of enabling the updating or modification of downloaded information normally located on a remote server, when the terminal is not connected to the network.

With respect to claims 28 and 33, Shirai further inherently teaches the wireless terminal downloading the local application program while in the on-line mode (“... downloading of the SMS-VT scripts from the fixed station to the mobile station . . .”, col. 4, lines 53-64).

With respect to claims 30 and 37 Shirai discloses a server method and a server, comprising:

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providing an application program running on the server (see col. 5, lines 4-6), the application program treating as local virtual memory a memory located on a wireless terminal while a connection between the server and the wireless terminal is established (“... fixed station supplies to the mobile station the appropriate scripts which the mobile station is capable of utilizing, the mobile station stores the supplied scripts in its memory”, col. 5, lines 5-9, col. 5, lines 53-56), while the connection is established and without wireless user intervention, sending to the wireless terminal a local application program. Shirai further discloses operating the mobile station in accordance with the stored at least one script and receiving a user input to aid in configuring the operating features of the mobile station to select and implement at least one specific capability indicated in the terminal capabilities response without further contact with the fixed station”, col. 6, lines 46-51). Shirai thus read on the invention as claimed except the limitation of the local application having read and write access to the data stored in the virtual memory when run by the wireless terminal while in an off-line mode.

Gauvin discloses method for modifying copies of remotely stored documents using a web browser (see title), in which a local copy of a remote network document that has been downloaded from the network on to a client computer can be accessed and modified when the client is disconnected from the network (see abstract, col. 2, lines 11-29 and col. 5, lines 6-40). According to Gauvin this enables a client to locally update a database, normally located on a remote server, when the client is not connected to the network (see col. 2, lines 5-9)

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It would therefore have been obvious to one of ordinary skill in the art ~~have been obvious to one of ordinary skill in the art~~, at the time of the invention to incorporate the above teaching of Gauvin by providing read and write access to memory locations to which data has been downloaded in the system of Shirai for the benefit of enabling the updating or modification of downloaded information normally located on a remote server, when the terminal is not connected to the network.

With respect to claims 29 and 34 Shirai further discloses configuring the operating features of the mobile station to select and implement at least one specific capability indicated in the terminal capabilities response without further contact with the fixed station (col. 6, lines 48-51), thus suggesting the capability of the mobile station to modify particular data in the virtual memory while in the off-line mode, but fail to specifically disclose outputting a message to the server containing updates for at least some of the particular data.

Gauvin discloses method for modifying copies of remotely stored documents using a web browser (see title), in which a local copy of a remote network document that has been downloaded from the network on to a client computer can be accessed and modified when the client is disconnected from the network (see abstract, col. 2, lines 11-29 and col. 5, lines 6-40). Gauvin further discloses that modifications made to the local database copy may be made to the database of the origin server upon re-connection (see col.5, lines 54-57).

It would therefore have been obvious to one of ordinary skill in the art have been obvious to one of ordinary skill in the art, at the time of the invention to incorporate the above teaching of

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Gauvin by providing updating of memory locations to which data has been downloaded in the system of Shirai for the benefit of ensuring the availability of updated information normally to a remote server.

With respect to claims 31 and 38 Shirai's disclosure of the fixed station supplying the mobile station the appropriate scripts which the mobile station is capable of utilizing and which is stored in the memory of the mobile station (see col. 5, lines 6-9), reads on maintaining a mirror version of the local virtual memory in the server while the feature of configuring the operating features of the mobile to select and implement at least one specific capability indicated in the terminal capabilities response without further contact (col. 6, lines 46-51), reads on the local program modifying particular data in the virtual memory while in the off-line mode. Shirai, however, fail to specifically disclose receiving a message containing updates for at least some of the particular data and updating the mirror version accordingly.

Gauvin further discloses that modifications made to the local database copy may be made to the database of the origin server upon re-connection (see col.5, lines 54-57), thus suggesting the provision of updated information in a mirror version of the database.

It would therefore have been obvious to one of ordinary skill in the art have been obvious to one of ordinary skill in the art, at the time of the invention to incorporate the above teaching of Gauvin by providing updating of memory locations to which data has been downloaded in the system of Shirai for the benefit of ensuring the availability of updated information normally to a remote server.

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With respect to claim 39 Shirai discloses a wireless terminal method and a wireless terminal comprising:

providing a memory on the wireless terminal which in an on-line mode is adapted to be treated as a local virtual memory by an application program running on a server to read and write data in the virtual memory related to the remote application program (“... fixed station supplies to the mobile station the appropriate scripts which the mobile station is capable of utilizing, the mobile station stores the supplied scripts in its memory”, col. 5, lines 5-9), and

Shirai further teaches operating the mobile station in accordance with the stored at least one script and receiving a user input to aid in configuring the operating features of the mobile station to select and implement at least one specific capability indicated in the terminal capabilities response without further contact with the fixed station” (col. 6, lines 46-51). Shirai thus read on the invention as claimed except the limitation of the local application having read and write access to the data stored in the virtual memory, wherein in the off-line mode, when the application program running on the server modifies data at the server, the application program running on the server establishes a data session with the wireless terminal and updates corresponding data in the virtual memory and when the local application program modifies particular data in the virtual memory, the local application program outputs a message to the server, containing updates for at least some of the particular data.

Gauvin discloses method for modifying copies of remotely stored documents using a web browser (see title), in which a local copy of a remote network document that has been

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downloaded from the network on to a client computer can be accessed and modified when the client is disconnected from the network (see abstract, col. 2, lines 11-29 and col. 5, lines 6-40). Gauvin further discloses that modifications made to the local database copy may be made to the database of the origin server upon re-connection (see col.5, lines 54-57).

It would therefore have been obvious to one of ordinary skill in the art have been obvious to one of ordinary skill in the art, at the time of the invention to incorporate the above teaching of Gauvin by providing read and write access to memory locations to which data has been downloaded in the system of Shirai for the benefit of enabling the updating or modification of downloaded information normally located on a remote server, when the terminal is not connected to the network and providing the updated information when reconnected to the server.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Gauvin et al. (6,061,686) discloses a method for updating a copy of a remote document stored in a local computer system.

Ofek et al. (6,052,797) discloses remotely mirrored data storage system.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Appiah whose telephone number is (703) 305-4772. The examiner can normally be reached on M-F from 7:30AM to 5:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chang, can be reached on (703) 308-6739.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4750. The Group fax numbers are (703) 872-9314 and (703) 308-6296.

Serial Number: 09/220,016

CA
Charles Appiah

February 15, 2002.


VIVIAN CHIN
SUPERVISORY PATENT EXAMINER
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